

Ai``U\!FY[]a Y'=fUb.'>cifbU`]gh]bbYbk UfhYb'Ui Z'I fhY]`'XYg' HcXYgf]W\hYfg

a fub Xfc\hink Y] ≈i fbu`]gh]bbYbžB]`i Zuf`< Ua YX]`i bX
9`U\Y\`Ac\Ua a UX]žX]Y <]bf]Whi b["8]Y VY]XYb`k UfYb
i bhYf`XYb`9fghYbžX]Y`ØVYf`XYb`HcX`j cb`}bU`AU\gU`5a]b]
VYf]WkhYh`\UhhYb"8]Y ¼ b[Y:fui k Uf`]b`Dc`]nY][Yk U\fgUa
j YfghcfVYbžbUWkXYa g]Y`[Y[Yb`X]Y`]fUb]gWkYb
?`Y]Xi b[gj cfgWkf]ZhYb`j Yfghc» Yb`\UhhY"BUWkXYa < Ua YX]
Y]b`:chc`XYf`hfUi YfbXYb`9`hYfb`j cb`5a]b]`Ui Z`Hk]hhYf`[YhY]`h
\UhhYžki fXY`g]Y`j Yf\UZhYh"5i Wk`Ac\Ua aUX]žX]Y`ØVYf`X]Y
HfUi YfZY]Yf`VYf]WkhYh`\UhhYžki fXY`ZYgh[Ybca a Yb"6Y]XY
≈i fbU`]gh]bbYb`g]hnYb`bi b`gY]h`a Y\f`U`g`'\$\$`HU[Yb`]a
; YZÀb[b]g`i bX`k UfhYb`Ui Z`]\f`I fhY]`"8]Y`J YfY]bhYb
BUh]cbYb`\UhhYb`X]Y`VY]XYb`≈i fbU`]gh]bbYb`j cf`k Yb][Yb
AcbUhYb`a]h`XYa`DfYggYZfY]\Y]hg!DfY]g`XYf`I B!
?i`hi fcf[Ub]gUh]cb`/ Ua d∧Y``]d/



a 'fUb'Xfc\h'nk Y]' ≈i fbU`]gh]bbYbž'B]`i ZUf' < Ua YX]'i bX'9`U\Y\
A c\Ua a UX]ž'X]Y' <]bf]W\hi b["'8]Y'VY]XYb'k UfYb'i bhYf'XYb
9fghYbž'X]Y'ØVYf'XYb'HcX'j cb'|bU'A U\qU'5a]b]'VYf]W\hYh'\UhhYb"

8]Y 'i b[Y': fUi 'k Uf']b 'Dc`]nY][Yk U\fgUa 'j YfghcfVYbž'bUWXXYa g]Y [Y[Yb 'X]Y ']fUb]gWXYb '? 'Y]Xi b[gj cfgWXf]ZhYb 'j Yfghc» Yb '\UhhY'' BUWXXYa '< Ua YX]'Y]b : chc 'XYf'hfUi YfbXYb '9`hYfb 'j cb '5a]b]'Ui Z Hk]hhYf'[YhY]`h'\UhhYž'k i fXY 'g]Y 'j Yf\UZhYh'' '5i WX 'A c\Ua a UX]ž'X]Y ØVYf'X]Y 'HfUi YfZY]Yf'VYf]WXhYh'\UhhYž'k i fXY 'ZYgh[Ybca a Yb'' 6Y]XY '&i fbU`]gh]bbYb 'g]hnYb 'bi b 'gY]h'a Y\f'U`g'' \$\$ 'HU[Yb']a ; YZÀb[b]g'i bX'k UfhYb 'Ui Z']\f'I fhY]`"

8]Y J Y f Y] b h Y b 'B U h] c b Y b '\ U h h Y b 'X]Y 'V Y] X Y b '\(\pi\) i f b U \(`\) g h] b b Y b 'j c f k Y b] [Y b 'A c b U h Y b 'a] h X Y a 'D f Y g g Y Z f Y] \(`Y\) h g! D f Y] g 'X Y f 'I B! ? i 'h i f c f [U b] g U h] c b 'I b Y g W c 'U i g [Y n Y] W \(b Y h'' = a ' = f U b ' k i f X Y b ' g] Y Y \(c W \) k Y [Y b ' ? c `` U V c f U h] c b 'a] h X Y a ': Y] b X g h U U h 'I G 5 \(\frac{\pi}{2} Y \)] b Y a ? c a d `c h h '[Y [Y b 'X] Y 'b U h] c b U `Y 'G] W Y f \(Y \)] h i b X 'D f c d U [U b X U '[Y [Y b X Y b 'G h U U h '' U b [Y _`U [h'' 8] Y '\(\frac{\pi}{2} \) g h] n 'V Y g h A h] [h Y 'X Y b 'J c f k i f Z Y f b Y i h i b X 'b i b 'k] f X 'X U g 'I f h Y] `' j Y f Z U g g h'' = a 'g W X `] a a g h Y b ': U `` X f c \ h 'X Y b V Y] X Y b '\(\pi\) i f b U `] g h] b b Y b 'Y] b 'H c X Y g i f h Y] `"

<Ua YX]'i bX'A c\Ua a UX]'\UhhYb']b']\fYb'6Yf]W\hYb']a a Yf
k]YXYf'X]Y'8]g_f]a]b]Yfi b['j cb': fUi Yb']a '=fUb'h\Ya Uh]g]Yfh"
<Ua YX]'\UhhY'VY]gd]Y`gk Y]gY'ØVYf': fUi Yb'[YgW\f]YVYbž'X]Y'b]W\h
U`g'Ni gW\Ui Yf]bbYb']b'GdcfhghUX]Yb'ni [Y`UggYb'k UfYbž'k À\fYbX
A c\Ua a UX]'Y]bYb'7cfcbU!5i gVfi W\']a '; YZÀb[b]g'; \UfW\U_
ÒZZYbh`]W\'[Ya UW\h'\UhhY"'6Y]XY'k i fXYb'k Y[Yb']\fYf'_f]h]gW\Yb
6Yf]W\hYfghUhhi b['VYfY]hg'a]h'6Yfi Zgj YfVch'i bX'<UZhghfUZYb
VY`Y[h"</pre>

8]Y J cfk ØfZY XYf Ni gUa a YbUfVY]ha]h'Ui g`ÀbX]gWX Yb GhUUhYb k Y]gYb X]Y '&i fbU`]gh]bbYb i bX]\fY F YXU_h]cbYb ni fØW_" '9]b Y\Ya U`][Yf'?c``Y[Y]b 'HY\YfUb 'Ài » Yfh X]Y J Yfa i hi b[ž'XUgg '¾ gh]n i bX ; Y\Y]a X]YbghY]b '9I Ya dY `ghUhi]YfYb 'k c``Ybž'i a &i fbU`]ghYb 'Y]bni gWX ØWX hYfb i bX 'j cb 'XYf '6Yf]WX hYfghUhhi b['ØVYf gc`WX Y : À``Y 'UVni \U`hYb"

8]Y'G]hi Uh]cb']a '=fUb'V`Y]Vh'k Y]hYf\]b'Ub[YgdUbbh"'8]Y
G]hhYbdc`]nY]ž'X]Y'ZØf'XYb'HcX'j cb'>jbU'A U\gU'5a]b]
j YfUbhk cfh`]W\']ghž'\Uh']\fY'5fVY]h'k]YXYf'Ui Z[Ybca a Yb'i bX'Yg
k i fXYb'?Ua YfUg']bghU``]Yfhži a ': fUi Yb']a 'ÒZZYbh`]W\Yb'FUi a 'ni
ØVYfk UW\Yb"'<Ua YX]'i bX'A c\Ua a UX]'k UfhYb'bi b'Ui Z'XUg'I fhY]`

XYg HcXYgf]WhYfg "

9gʻ]ghʻVYgcf[b]gYffY[YbXžʻXUggʻ≈i fbUʻ]gh]bbYbʻk]Yʻ< Ua YX]ʻi bX A c\Ua a UX]ʻUi Z[fi bXʻ]\fYfʻHÀh][_Y]hʻ]b\UZh]Yfhʻk YfXYbʻi bX ZØfW\hYbʻa ØggYbžʻ\]b[Yf]W\hYh'ni ʻk YfXYbʻ'8]YʻJYfgi W\YʻXYg]fUb]gW\YbʻFY[]a YgžʻX]Yʻ6Yf]W\hYfghUhhi b['ØVYf A YbgW\YbfYW\hgj Yf`Yhni b[Ybʻi bX`8]g_f]a]b]Yfi b['ni a GW\k Y][Ybʻni ʻVf]b[YbžʻXØfZYbʻb]W\h'hc`Yf]Yfhʻk YfXYbʻ'8]Y]bhYfbUh]cbUʻYʻ; Ya Y]bgW\UZhʻgc``hYʻ]\fYʻGh]a a YʻYf\YVYbʻi bX 8fi W_ʻUi ZʻXYbʻ\\Dib\Ui g\ØVYbži a `X]Yʻ: fY]`Uggi b['i bX`G]W\Yf\Y]h X]YgYfʻa i h][Ybʻ≈i fbU`]gh]bbYbʻni ʻ[Yk À\f`Y]ghYb''

8 YhU]`g

6Ygi WXYb 'G]Y 'i bg 'Ui Z. 'a Y]b!VYf`]b "bYh